

Continuation of the Search for the Standard Model Higgs Boson in the $WH \rightarrow WWW \rightarrow l\nu.jj.jj$ Channel

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August 8, 2011

Abstract

During the summer of 2011, work began on developing intermediary stages of an analysis of the high-mass Standard Model Higgs boson in associated production with a W boson. This channel, $WH \rightarrow WWW \rightarrow l\nu.jj.jj$, is of particular interest since it has not yet been investigated by any other analysis group. Currently the wh_cafe analysis framework has been updated and utilized to produce plots comparing the data samples with Monte Carlo simulations of both the $WH \rightarrow WWW \rightarrow l\nu.jj.jj$ signal and various background processes. Continued efforts are being made to modify the framework for this analysis.

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